#4(

RAW SEQUENCE LISTING   DATE: 11/27/2001
PATENT APPLICATION: US/09/882,621   TIME: 14:22:52

Input Set : A:\21834957seqlist.txt
Output Set: N:\CRF3\11212001\I882621.raw

ENTERED

```
  5 <110> APPLICANT: Crucell Holland B.V.
  7        Houtzager, Erwin
  9        Logtenberg, Ton
 11        de Kruif, Cornelis A.
 15 <120> TITLE OF INVENTION: Chimaeric Phages
 19 <130> FILE REFERENCE: 2183-4957US
 23 <140> CURRENT APPLICATION NUMBER: US 09/882,621
 25 <141> CURRENT FILING DATE: 2001-06-15
 29 <160> NUMBER OF SEQ ID NOS: 8
 33 <170> SOFTWARE: PatentIn version 3.1
 37 <210> SEQ ID NO: 1
 39 <211> LENGTH: 30
 41 <212> TYPE: DNA
 43 <213> ORGANISM: Artificial Sequence
 47 <220> FEATURE:
 49 <223> OTHER INFORMATION: Primer D3 BamHI Forward
 51 <400> SEQUENCE: 1
 52 ggatcctctg gttccggtga tttgattatg                    30
 55 <210> SEQ ID NO: 2
 57 <211> LENGTH: 30
 59 <212> TYPE: DNA
 61 <213> ORGANISM: Artificial sequence
 65 <220> FEATURE:
 67 <223> OTHER INFORMATION: Primer D3 BamHI Backward
 69 <400> SEQUENCE: 2
 70 ggatccagcg gagtgagaat agaaaggaac                    30
 73 <210> SEQ ID NO: 3
 75 <211> LENGTH: 33
 77 <212> TYPE: DNA
 79 <213> ORGANISM: Artificial sequence
 83 <220> FEATURE:
 85 <223> OTHER INFORMATION: Primer g3 minus HindIII Forward
 87 <400> SEQUENCE: 3
 88 aagcttctgc gtaataagga gtcttaatca tgc                33
 91 <210> SEQ ID NO: 4
 93 <211> LENGTH: 31
 95 <212> TYPE: DNA
 97 <213> ORGANISM: Artificial sequence
101 <220> FEATURE:
103 <223> OTHER INFORMATION: Primer g3 minus HindIII Backward
105 <400> SEQUENCE: 4
106 aagcttgttg aaaatctcca aaaaaaaagg c                  31
109 <210> SEQ ID NO: 5
111 <211> LENGTH: 31
113 <212> TYPE: DNA
115 <213> ORGANISM: Artificial sequence
119 <220> FEATURE:
```

```
121 <223> OTHER INFORMATION: Primer g3 ORF NcoI Forward
123 <400> SEQUENCE: 5
124 ccatggctga aactgttgaa agttgtttag c                             31
127 <210> SEQ ID NO: 6
129 <211> LENGTH: 31
131 <212> TYPE: DNA
133 <213> ORGANISM: Artificial sequence
137 <220> FEATURE:
139 <223> OTHER INFORMATION: Primer g3 ORF XbaI Backward
141 <400> SEQUENCE: 6
142 tctagattaa gactccttat tacgcagtat g                             31
145 <210> SEQ ID NO: 7
147 <211> LENGTH: 266
149 <212> TYPE: DNA
151 <213> ORGANISM: Artificial sequence
155 <220> FEATURE:
157 <223> OTHER INFORMATION: Sequence of the part of the helper phage that surrounds the
g3 de
158         letion
160 <400> SEQUENCE: 7
161 ggttatgcgt gggcgatggt tgttgtcatt gtcggcgcaa ctatcggtat caagctgttt    60
163 aagaaattca cctcgaaagc aagctgataa accgatacaa ttaaaggctc cttttggagc   120
165 cttttttttt ggagattttc aacaagcttc tgcgtaataa ggagtcttaa tcatgccagt   180
167 tcttttgggt attccgttat tattgcgttt cctcggtttc cttctggtaa ctttgttcgg   240
169 ctatctgcta acttttctta aaaagg                                        266
172 <210> SEQ ID NO: 8
174 <211> LENGTH: 832
176 <212> TYPE: DNA
178 <213> ORGANISM: Artificial sequence
182 <220> FEATURE:
184 <223> OTHER INFORMATION: Representation of the helper phage genome deleted for part
of the
185         g3 gene
187 <400> SEQUENCE: 8
188 ttgactccct gcaagcctca gcgaccgaat atatcggtta tgcgtgggcg atggttgttg    60
190 tcattgtcgg cgcaactatc ggtatcaagc tgtttaagaa attcacctcg aaagcaagct   120
192 gataaaccga tacaattaaa ggctcctttt ggagcctttt tttttggaga ttttcaacgt   180
194 gaaaaaatta ttattcgcaa ttcctttagt tgttcctttc tattctcact ccgctaagct   240
196 ttctggttcc ggtgattttg attatgaaaa tatggcaaac gctaataagg gggctatgac   300
198 cgaaaatgcc gatgaaaacg cgctacagtc tgacgctaaa ggcaaacttg attctgtcgc   360
200 tactgattac ggtgctgcta tcgacggttt cattggtgac gtttccggcc ttgctaatgg   420
202 taatggtgct actggtgatt ttgctggctc taattcccaa atggctcaag tcggtgacgg   480
204 tgataattca cctttaatga ataatttccg tcaatattta ccttcccttc ctcaatcggt   540
206 tgaatgtcgc ccttttgtct ttcgcgctgg taaaccatat gaattttcta ttgattgtga   600
208 caaaataaac ttattccgtg gtgtctttgc gtttctttta tatgttgcca cctttatgta   660
210 tgtatttttcg acgtttgcta acatactgcg taataaggag tcttaatcat gccagttctt   720
212 ttgggtattc cgttattatt gcgtttcctc ggtttccttc tggtaacttt gttcggctat   780
214 ctgctaactt ttcttaaaaa gggcttcggt aagatagcta ttgctatttc at           832
```

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/882,621

DATE: 11/27/2001
TIME: 14:22:53

Input Set : **A:\21834957seqlist.txt**
Output Set: **N:\CRF3\11212001\I882621.raw**